IZ FAQs

JoEllen Wolicki, BSN, RN Immunization Services Division

National Center for Immunization and Respiratory Diseases

21st Annual Arizona Immunization Conference

April 2014



Take Out Your Cell Phone



- You will have the opportunity to text answers to questions!
- Please note: message and data rates may apply

Disclosures

- JoEllen Wolicki is a federal government employee with no financial interest or conflict with the manufacturer of any product named in this presentation
- The speaker will not discuss the off-label use of any vaccines during this presentation
- The speaker will not discuss a vaccine not currently licensed by the FDA

NIPINFO@cdc.gov

- Email service for clinicians and the general public to ask vaccine related questions
- NIPINFO staff answer on average
 - 776 emails per month
- High volume months are traditionally August, September, and October

Frequent Flyers

- Common topics from NIPINFO questions
 - Schedule: Intervals and ages
 - Indications
 - Vaccine Safety
 - Administration errors
 - Foreign vaccination history/travel



Everyday Tools

- Immunization schedules
 - Childhood immunization schedules
 - Adult immunization schedules
 - Especially the footnotes!
- Storage and handling toolkit
- General Recommendations on Immunization: Recommendations of the Advisory Committee on Immunization Practices

Figure 1. Recommended immunization schedule for persons aged 0 through 18 years - United States, 2014. (FOR THOSE WHO FALL BEHIND OR START LATE, SEE THE CATCH-UP SCHEDULE (FIGURE 2)).

"dos

dose

¹² dos

z dos

Range of recomme

ages for catch-up

immunization

nactivated poliovirus

Varicella³

Hepatitis A

Hepatitis B

Inactivated poliovirus

Varicella³

2 months

9 years

NOTE: The above recommendations must

series); RV5 (3-dose series)

Diphtheria, tetanus, & acel-

b⁵ (Hib) Pneumococcal conjugate

(<18 yrs)

Varicella¹⁰ (VAR)

Hepatitis A¹⁷ (HepA)

males and females)

≥ 2 mos)

Human papillomavirus¹²

Meningococcal¹³ (Hib-Men-

CY > 6 weeks; MenACWY-D

ecommended ages for

mmendations, available online at http:

This schedule includes recommendations in effect as of January 1, 2014.

vaccine generally is preferred over separate injections of its equivalent co

(VAERS) online (http://www.vaers.hhs.gov) or by telephone (800-822-796

This schedule is approved by the Advisory Committee on Immunization

(http://www.aafp.org), and the American College of Obstetricians and G

NOTE: The above recommendations must be read alor

recautions and contraindications for vaccination, is available from CDC

9 mos: Men ACWY-CRM

all children

lular pertussis³ (DTaP: <7 yrs) Tetanus, diphtheria, & acel-Jular pertussis* (Tdap: >7 vrs) Haemophilus influenzae type

Pneumococcal polysaccharide⁶ (PPSV23) nactivated poliovirus⁷ (IPV)

Influenza® (IIV: LAIV) 2 doses for some: See footnote 8

Measles, mumps, rubella⁹

These recommendations must be read with the footnotes that follow. For those who fall behind or start late, provide catch-up vaccination at the earliest opportunity as indicated by the green bars in Figure 1.

o determine minimum intervals between doses, see the catch up scredule (rigule 2). School entry and adolescent vacchie age gloups are in bold.																
Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19-23 mos	2-3 yrs	4-6 yrs	7-10 yrs	11-12 yrs	13–15 yrs	16–18 yrs
Hepatitis B [†] (HepB)	1º dose	⋖ 2 nd (dose>		<		3 rd dose		,							

if first dose adn if first dose admin

4 weeks if first dose

No further doses nee

FIGURE 2. Catch-up immunization schedule for persons aged 4 months through 18 years who start late or who are more than 1 month behind —United States, 2014.

The figure below provides catch-up schedules and minimum intervals between doses for children whose vaccinations have been delayed. A vaccine series doses not need to be restarted, regardless of the time that has elapsed between doses. Use the section appropriate for the child's age. Always use this table in conjunction with Figure 1 and the footnotes that follow.

Persons aged 4 months through 6 years										
Vaccine	Minimum Age for	Minimum Interval Between Doses								
vaccine	Dose 1	Dose 1 to dose 2	Dose 2 to dose 3	Dose 3 to dose 4	Dose 4 to dose 5					
Hepatitis B [†]	Birth	4 weeks	8 weeks and at least 16 weeks after first dose; minimum age for the final dose is 24 weeks							
Rotavirus ²	6 weeks	4 weeks	4 weeks?							
Diphtheria, tetanus, & acellular pertussis 3	6 weeks	4 weeks	4 weeks	6 months	6 months ³					

Footnotes — Recommended immunization schedule for persons aged 0 through 18 years—United States, 2014

For further guidance on the use of the vaccines mentioned below, see: http://www.cdc.gov/vaccines/hcp/acip-recs/index.html. For vaccine recommendations for persons 19 years of age and older, see the adult immunization schedule.

- · For contraindications and precautions to use of a vaccine and for additional information regarding that vaccine, vaccination providers should consult the relevant ACIP statement available online at http://www.cdc.gov/vaccines/hcp/acip-recs/index.html For purposes of calculating intervals between doses, 4 weeks = 28 days. Intervals of 4 months or greater are determined by calendar months.
- Vaccine doses administered 4 days or less before the minimum interval are considered valid. Doses of any vaccine administered ≥5 days earlier than the minimum interval or minimum age should not be counted as valid doses and should be repeated as age-appropriate. The repeat dose should be spaced after the invalid dose by the recommended minimum interval. For further details, see MMWR, General Recommendations on Immunization and Reports / Vol. 60 / No. 2; Table 1. Recommended and minimum ages and intervals between vaccine doses available online at
- http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf. Information on travel vaccine requirements and recommendations is available at http://wwwnc.cdc.gov/travel/destinations/list.
- For vaccination of persons with primary and secondary immunodeficiencies, see Table 13, "Vaccination of persons with primary and secondary immunodeficiencies," in General Recommendations on Immunization (ACIP), available at http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf; and American Academy of Pediatrics. Immunization in Special Clinical Circumstances, in Pickering LK, Baker CJ, Kimberlin DW, Long SS eds. Red Book: 2012 report of the Committee on Infectious Diseases. 29th ed. Elk Grove Village, IL: American Academy of Pediatrics.

Exception: DTaP-IPV (Kinrix): 4 years)

elapsed since the third dose,

Boostrix, 11 years for Adacel)

For other catch-up guidance, see Figure 2

administered instead 10 years after the Tdap dose.

pooster dose at age 11 through 12 years.

counted as the adolescent Tdap booster For other catch-up guidance, see Figure 2

Inadvertent doses of DTaP vaccine

Catch-up vaccination:

Routine vaccination

Catch-up vaccination:

Hepatitis B (HepB) vaccine, (Minimum age: birth)

- Administer monovalent HepB vaccine to all newborns before hospital discharge.
- For infants born to hepatitis B surface antigen (HBsAg)-positive mothers, administer HepB vaccine and 0.5 mL of hepatitis B immune globulin (HBIG) within 12 hours of birth. These infants should be tested for HBsAg and antibody to HBsAg (anti-HBs) 1 to 2 months after completion of the HepR series, at age 9 through 18 months (preferably at the next well-child visit).
- If mother's HBsAg status is unknown, within 12 hours of birth administer HepB vaccine regardless of birth weight. For infants weighing less than 2,000 grams, administer HBIG in addition to HepB vaccine within 12 hours of birth. Determine mother's HBsAg status as soon as possible and, if mother is HBsAgpositive, also administer HBIG for infants weighing 2,000 grams or more as soon as possible, but no

Doses following the birth dose:

- The second dose should be administered at age 1 or 2 months, Monovalent HepB vaccine should be
- used for doses administered before age 6 weeks. Infants who did not receive a birth dose should receive 3 doses of a HepB-containing vaccine on a
- chedule of 0, 1 to 2 months, and 6 months starting as soon as feasible. See Figure 2 Administer the second dose 1 to 2 months after the first dose (minimum interval of 4 weeks),
- administer the third dose at least 8 weeks after the second dose AND at least 16 weeks after the first dose. The final (third or fourth) dose in the HepB vaccine series should be administered no earlier than age 24 weeks.
- Administration of a total of 4 doses of HepB vaccine is permitted when a combination vaccine containing HepB is administered after the birth dose.

Unvaccinated persons should complete a 3-dose series.

- A 2-dose series (doses separated by at least 4 months) of adult formulation Recombivax HB is licensed
- for use in children aged 11 through 15 years. For other catch-up guidance, see Figure 2.

Rotavirus (RV) vaccines. (Minimum age: 6 weeks for both RV1 [Rotarix] and RV5 [RotaTeq]) Routine vaccination:

- Administer a series of RV vaccine to all infants as follows:
- If Rotarix is used, administer a 2-dose series at 2 and 4 months of age.
 If RotaTeq is used, administer a 3-dose series at ages 2, 4, and 6 months.
- If any dose in the series was RotaTeq or vaccine product is unknown for any dose in the series, a total of 3 doses of RV vaccine should be administered
- The maximum age for the first dose in the series is 14 weeks, 6 days; vaccination should not be
- initiated for infants aged 15 weeks, 0 days or older,
- The maximum age for the final dose in the series is 8 months, 0 days. · For other catch-up guidance, see Figure 2.
- Catch-up vaccination:

Haemophilus influenzae type b (Hib) conjugate vaccine. (Minimum age: 6 weeks for PRP-T (ACTHIB, DTaP-IPV/Hib (Pentacel) and Hib-MenCY (MenHibrix)], PRP-OMP [PedvaxHIB or COMVAX], 12 months for PRP-T (Hiberix1)

Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine. (Minimum age: 6 weeks.

The fourth dose may be administered as early as age 12 months, provided at least 6 months have

Tetanus and diphtheria toxoids and acellular pertussis (Tdap) vaccine, (Minimum age: 10 years for

Administer 1 dose of Tdap vaccine to all adolescents aged 11 through 12 years

by tetanus and diphtheria toxoids (Td) booster doses every 10 years thereafter.

27 through 36 weeks gestation) regardless of time since prior Td or Tdap vaccination.

Administer a 5-dose series of DTaP vaccine at ages 2, 4, 6, 15 through 18 months, and 4 through 6 years.

The fifth dose of DTaP vaccine is not necessary if the fourth dose was administered at age 4 years or older

Tdap may be administered regardless of the interval since the last tetanus and diphtheria toxoid-containing vaccine.

Administer 1 dose of Tdap vaccine to pregnant adolescents during each pregnancy (preferred during

Persons aged 7 years and older who are not fully immunized with DTaP vaccine should receive Tdap

vaccine. For children 7 through 10 years who receive a dose of Tdap as part of the catch-up series, an adolescent Tdap vaccine dose at age 11 through 12 years should NOT be administered. Td should be

Persons aged 11 through 18 years who have not received Tdap vaccine should receive a dose followed

If administered inadvertently to a child aged 7 through 10 years may count as part of the catch-up

series. This dose may count as the adolescent Tdap dose, or the child can later receive a Tdap

If administered inadvertently to an adolescent aged 11 through 18 years, the dose should be

vaccine as 1 (preferably the first) dose in the catch-up series; if additional doses are needed, use Td

- Administer a 2- or 3-dose Hib vaccine primary series and a booster dose (dose 3 or 4 depending on vaccine used in primary series) at age 12 through 15 months to complete a full Hib vaccine series
- The primary series with ActHIB, MenHibrix, or Pentacel consists of 3 doses and should be administered at 2, 4, and 6 months of age. The primary series with PedvaxHib or COMVAX consists of 2 doses and should be administered at 2 and 4 months of age; a dose at age 6 months is not indicated.
- One booster dose (dose 3 or 4 depending on vaccine used in primary series) of any Hib vaccine should be administered at age 12 through 15 months. An exception is Hiberix vaccine, Hiberix should only oe used for the booster (final) dose in children aged 12 months through 4 years who have received at least 1 prior dose of Hib-containing vaccine.

http://www.cdc.gov/vaccines/schedules/hcp/index.html

Recommended Adult Immunization Schedule—United States - 2014

Note: These recommendations must be read with the footnotes that follow containing number of doses, intervals between doses, and other important information.

Figure 1. Recommended adult immunization schedule, by vaccine and age group¹

19-21 years

The recommendations in this schedul

Immunization Practices (ACIP) the An Obstetricially and Tally collegists (ACC

AGE GROUP ►

VACCINE ▼

VACCINE ▼ AGE GROUP ►	19-21 years	22-26 year	rs 27-49 ye	ars 50-	59 years	60-64 years	S	≥ 65 ye	ars						
Influenza ^{2,*}		1 does annually Figure 2. Vaccines that might be indicated for adults based on medical and other indications ¹													
Tetanus, diphtheria, pertussis (Td/Tdap) ³,*	Substitute		Figure 2. Vaccin	es that might l	oe indicat	ted for adults based on medical			l and oth	ner indication	s¹ Heart	Asplenia (including			
Varicella ^{4,*}	3 doses		VACCINE ▼ INDICATION ►			compromising CD4+ T1		T lymphocyte	Men who		disease, chronic lung disease, chronic alcoholism	elective splenectomy and persistent complement component deficiencies) 8,14	Chronic liver		Healthcare personnel
Human papillomavirus (HPV) Female 5,*					Pregnancy	immunodeficiency	< 200	< 200 ≥ 200 cells/µL cells/µL							
Human papillomavirus (HPV) Male 5,*	3 doses		Influenza ²,*			1 dose IIV annually		1 dose IIV or LAIV annually	1 dose IIV annually					1 dose IIV or LAIV annually	
Zoster ⁶			Tetanus, diphtheria, pertussis (Td/Tdap) ^{3,*}		1 dose Tdap each pregnancy	Substitute 1-time dose		ne dose o	of Tdap for Td booster; then boost with Td every 10 yrs						
Measles, mumps, rubella (MMR) 7,*		1	Varicella ^{4,*}		(Contraindicated					2 d	oses			
Pneumococcal 13-valent conjugate (PCV13) 8,*			Human papillomavirus	s (HPV) Female 5,*		3 doses thro	ugh age	26 yrs			3 do	ses through age 2	6 yrs		
Pneumococcal polysaccharide (PPSV23) 9,10			Human papillomaviru	3 doses through age 26 yrs			rs	3 doses through age 21 yrs							
Meningococcal 11,*			Zoster ⁶		(Contraindicated						1 dose			
Hepatitis A 12,*	patitis A 12,*		Measles, mumps, rube	lla (MMR) ^{7,*}	(Contraindicated	ntraindicated			1 or 2 doses					
Hepatitis B 13,*			Pneumococcal 13-valen	t conjugate (PCV13) ^{8,*}						1 d	ose				
Haemophilus influenzae type b (Hib) 14,*			Pneumococcal polysac	charide (PPSV23) 9,10					1 or 2 dose	s					
	Covered by the Vaccine Injury Compensation Program For all persons in this category who meet the age requirements and who lack documentation of vaccination or have no evidence of previous infection; roster vaccine recompended regardless 20:335-5490. To file a claim for vaccine in 338-2382. To file a claim for vaccine in 2355-235-6490.		Meningococcal 11,						1 or more doses						
For all persons in this category who meet the age requirements and who			Hepatitis A ^{12,*} Hepatitis B ^{13,*}							2 doses					
have no evidence of previous infection:										3 doses					
of prior episode of zoster	Additional information cdc.gov/vaccines or fror	m the CDC-INF	Haemophilus influenza	e type b (Hib) 14,*		post-HSCT recipients only	,			1 or 3 dose	es				
factor is present (e.g., on the basis of	Monday - Friday, exclud Use of trade names and	,	*Covered by the Vacci	ne Injury Compensa	tion Program										
	Human Services.	commercial s	For all persons in this category who meet the age requirements and who lack These schedules indicate the recommended age groups and medical indications for which												

50-59 years

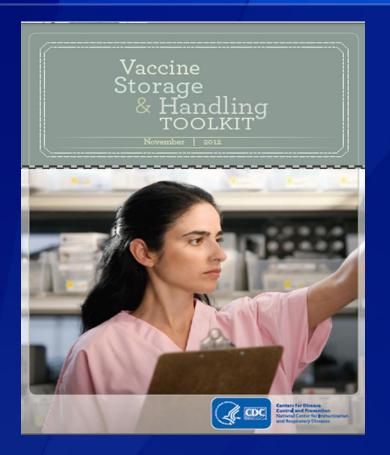
> 65 years

For all persons in this category who meet the age requirements and who lack documentation of vaccination or have no evidence of previous infection: zoster vaccine recommended regardless of prior episode of zoster Ricol nine no equif some of her risk fauther is present (e.g., outher basin of medioccupational, lifestyle, or other indications)



These schedules indicate the recommended age groups and medical indications for which administration of currently licensed vaccines is commonly indicated for adults ages 19 years and older, as of February 1, 2014. For all vaccines being recommended on the Adult Immunization c. lefulls: Gvacure series diles nit ni ed o beresia te fungari es cifti el me hat has elapsed el weer dos el Licerse (combination la civie pony beused whereter an components of the combination are indicated and when the vaccine's other components are not contraindicated. For detailed recommendations on all vaccines, including those used primarily for travelers or that are issued during the year, consult the manufacturers' package inserts and the complete statements from the Advisory Committee on Immunization Practices (www.cdc.gov/yaccines/pubs/acip-list. htm). Use of trade names and commercial sources is for identification only and does not imply endorsement by the U.S. Department of Health and Human Services.





VACCINE STORAGE AND HANDLING

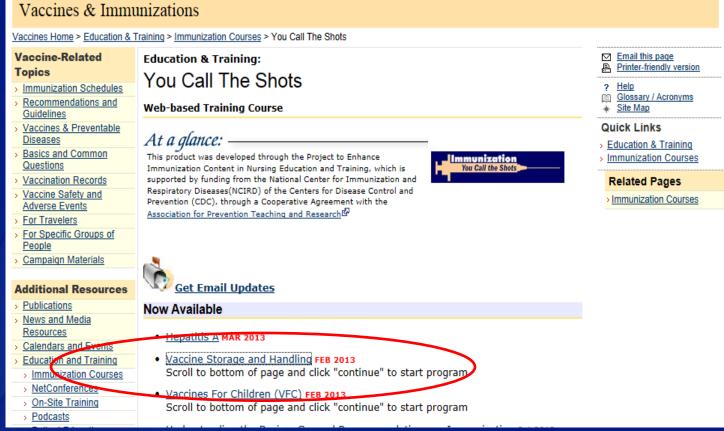
http://www.cdc.gov/vaccines/recs/storage/default.htm

Vaccine Storage and Handling Toolkit

- Contents are based on the:
 - Recommendations of the Advisory Committee on Immunization Practices (ACIP),
 - Manufacturer's product information, and
 - Studies from the National Institute for Scientific Technology (NIST)
- The toolkit outlines best practice strategies and recommendations on:
 - Equipment considerations for storage units and thermometers
 - Maintaining the cold chain
 - Routine storage and handling practices
 - Inventory management
 - Emergency procedures for protecting vaccine inventories

Staff who handle vaccines should be knowledgeable on proper vaccine storage and handling and best practices.

Vaccine Storage & Handling Web-based Training Continuing Education Offered



www.cdc.gov/vaccines/ed/youcalltheshots.htm

Use standardized training programs for staff trainings. Web-based programs are a great way to do this.



Morbidity and Mortality Weekly Report

Recommendations and Reports / Vol. 60 / No. 2

January 28, 2011

General Recommendations on Immunization

Recommendations of the Advisory Committee on Immunization Practices (ACIP)



Continuing Education Examination available at http://www.cdc.gov/mmwr/cme/conted.html



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf

General Recommendations on Immunization

- Provides guidance on vaccination issues common to more than one vaccine
- Revised on an ad hoc basis, generally every 3-5 years
- First published by ACIP in 1976
- Eighth revision published in 2011

Bookmark websites for reliable information in the web browser of your computer for staff to use. Including ACIP General Recommendations and vaccine specific ACIP recommendations.

General Recommendations on Immunization

- Contents include:
 - Timing and spacing of vaccines
 - Contraindications and precautions
 - Vaccine administration
 - Vaccine storage and handling
 - Altered immunocompetence
 - Vaccination records
 - Reporting adverse events
 - Vaccine information sources
 - Special situations

MMWR 2011;60(RR-2)

General Recommendations on Immunization

- Special situations:
 - Concurrent antibiotics and vaccines
 - Allergy to vaccine components
 - Latex allergy
 - Vaccination of premature infants
 - Vaccination during pregnancy
 - Breast feeding and vaccination
 - Persons vaccinated outside the U.S. including internationally adopted children

MMWR 2011;60(RR-2)

What Do You Think?



Q: We have a patient with only one documented dose of HPV vaccine administered 3 years ago. Do we need to start the series over?

- Yes
- No

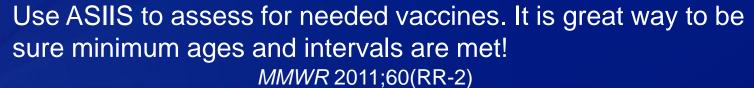
Extended Interval Between Doses

- It is not necessary to restart the series or add doses because of an extended interval between doses
- Not all permutations of all schedules for all vaccines have been studied
- Available studies of extended intervals have shown no significant difference in final titer
 - Send reminder and recall messages to patients for needed vaccines.

 MMWR 2011;60(RR-2)

Minimum Ages and Intervals

- Vaccine doses should not be administered at intervals less than the minimum intervals or earlier than the minimum age
- ACIP recommends that vaccine doses given up to 4 days before the minimum interval or age be counted as valid
 - AKA 4 Day Grace
- Doses administered 5 or more days before the minimum age or interval should be repeated



What Do You Think?



- We administered MMR by intramuscular injection instead of subcutaneously. Does the dose need to be repeated?
 - Yes
 - No

Wrong Route Errors

- Vaccines which should be administered by subcutaneous injection (subcut) given by intramuscularly
 - Do not repeat
- IM vaccines given by subcut injection
 - Repeat if hepatitis B, HPV or rabies
- Oral or intranasal vaccines (RV, LAIV)
 vaccines given IM or Subcut (!!)
 - Always repeat

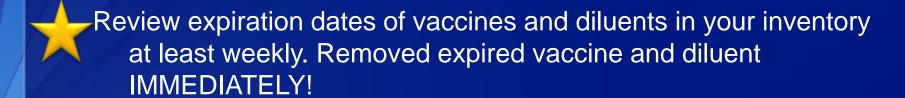
MMWR 2011;60(No. RR-2)

Rotavirus (RV) Vaccine Administration Errors, United States, 2006-2013

- 66 reports of RV vaccine administration errors to Vaccine Adverse Event Reporting System (VAERS)
 - 39 reports of injecting RV vaccine (RV1: 33; RV5: 6)
 - 19 of 39 reports (49%) documented an adverse event
 - Irritability (7) and injection site redness (5) most common
 - 27 reports of eye splashes
 - 21 cases: infants coughed, sneezed, or spit vaccine into the eyes of vaccination providers (17), parents, (1) or themselves (3)
 - 21/27 reported non-serious adverse events-minor eye irritation

Types of Vaccine Administration Errors

- Administering incorrectly stored vaccines
- Timing- minimum interval/age violations
- Expired vaccine or diluent used
- Wrong vaccine formulation
- Wrong route
- Preparation errors
- Wrong dosage or volume administered



Vaccines

- Vaccines most frequently associated with errors include:
 - Influenza
 - Hib
 - DTaP-IPV
 - Tdap
 - DTaP

- HepA
- HepB
- HPV
- Zoster
- MMRV



Label where each vaccine is stored in the unit. Do not store lookor sound-alike vaccines next to each other.

ISMP Medication Safety Alert March 19, 2014 Vol. 10 Issue 5

Make the Easy Thing To Do, the Right Thing To Do

- Implement proven medication safety practices to prevent medication errors, including:
 - Reducing reliance on memory
 - Standardization
 - Protocols and checklists
 - Differentiating among products to eliminate look- and sound-alike products
 - Monitoring error frequencies and correct system problems associated with errors

Preventing Medication Errors: Quality Chasm Series Institute of Medicine To Err is Human: Building a Safer Health System

Knowledgeable Staff is Key

- Ensure all staff are adequately trained PRIOR to administering vaccines
- Develop a standardized policy for competency-based education for
 - New and temporary staff
 - Ongoing training for permanent staff



Template for Skills Checklist for Immunizations is available from the Immunization Action Coalition (IAC)

What Do You Think?



- We gave DTaP-IPV (Kinrix) to a 6 month old for dose 3 of DTaP and IPV. Should we bring the child back and repeat DTaP and IPV?
 - Yes
 - No



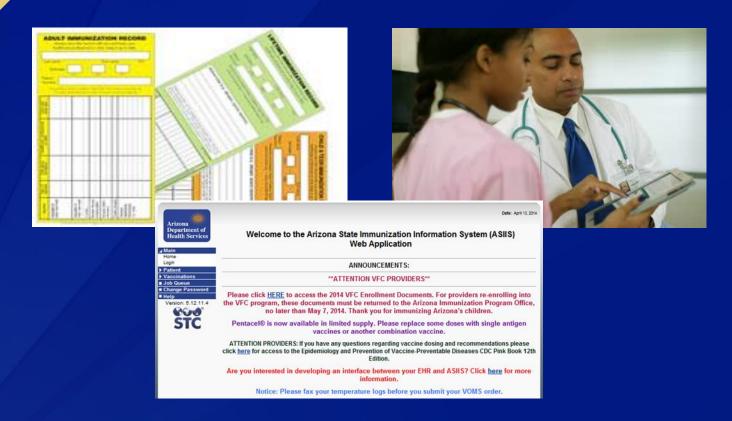
Thinking Through Using A Combination Vaccine

- Assess the patient's immunization history
- Review the current age-appropriate immunization schedule
- Screen for contraindications and precautions
 - Evaluate combination vaccines based on components and product indications

Appropriate Combination Vaccine Product

1

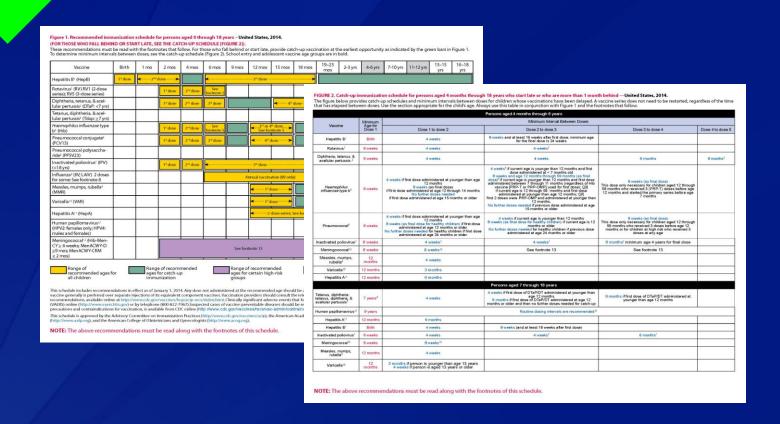
Assess the patient's immunization history



Only accept written, dated records as evidence of vaccination. Only self-reported doses of influenza vaccine and PPSV are acceptable

2.

Review the current age-appropriate immunization schedule



Use the Catch-up schedule for children who are behind for needed vaccines. Once caught-up, return to the routine schedule.

MMWR 2011;60(RR-2)

3.

Screen for contraindications and precautions

	of birth:	no.) (da	y) (t
Screening Checklist for Contraindication Vaccines for Children and Teens For parents/guardians: The following questions will help us determine which be given today, flyou aniewer 'yes' to any question, it does not necessarily mear	vaccines yo		
vaccinated. It just means additional questions must be asked. If a question is not clear, please ask your healthcare provider to explain it.	Yes	No	Don
Is the child sick today?			
Does the child have allergies to medications, food, a vaccine component, or latex?			
3. Has the child had a serious reaction to a vaccine in the past?			
Has the child had a health problem with lung, heart, kidney or metabolic disease (e.g., diabetes), asthma, or a blood disorder? Is he/she on long-term aspirin therap	y? 🗆		
If the child to be vaccinated is between the ages of 2 and 4 years, has a healthcare provider told you that the child had wheezing or asthma in the past 12 months?			
6. If your child is a baby, have you ever been told he or she has had intussusception?			
Has the child, a sibling, or a parent had a seizure; has the child had brain or other nervous system problems?			
8. Does the child have cancer, leukemia, HIV/AIDS, or any other immune system pro	oblem?		
 In the past 3 months, has the child taken medications that weaken their immune system, such as cortisone, prednisone, other steroids, or anticancer drugs, or had radiation treatments? 			
In the past year, has the child received a transfusion of blood or blood products, or been given immune (gamma) globulin or an antiviral drug?			
11. Is the child/teen pregnant or is there a chance she could become pregnant during the next month?			
12. Has the child received vaccinations in the past 4 weeks?			
	te:		_
,	no the child's her	ou seek	medica
Technical content reviewed by the Centers for Disease Control and Prevention www.immunize.or	orgicatg.d/p4060.pd	f • hem#	P4060 (2

Information for Health Professionals about the Screening Checklist for Contraindications (Children & Teens)
Are you interested in knowing why we included a certain question on the screening checklet? If so, read the information below. If you

1. Is the child sick today? (al-vacres

There is no evidence that acute lines reduces vaccine efficacy or increases vaccine adverse events (1, 2). However, as a preciation with molerate or severe acute ifness, all vaccines should be delayed until the lines has improved. Yell differess (such as cities media, upper respiratory infections, and diarrhea) are NOT contraindications.

2. Does the child have allergies to medications, foo

It is provinced to the sear above the search that the se

(if account) Habitary of anaphylatic reaction (see quantion 2) to a previous does of accorde or vicence component as controllection for subsequent does (1). Hetary of encephalography within 7 days following OTEP/DTaP as a commendation for themer does of permanis containing counts. Persoulation is DTaP from 7 days following (1) poster or within 7 days of a does, (1) pals or viting exposed or collegion within 65 brace of does, (1) controllection copy gift of or more provided on a distance of the does (1) controllection copy gift of the most of a previous does. There are often where general training the converse following exposure provided from the as often where general training the converse following exception of the see often where general trainings the converse following exception of the most as often where general trainings the converse following exception of the most con-

H. Has the child had a health problem with lung, heart, kidney, or metabolic disease (e.g., diabetes), asthma, or a blood disorder! Is heishe on long-term aspirin therapy? [JuN]
Children with up of the health condons listed dose thould not be given the intra

If the child to be vaccinated is between the ages of 2 and 4 years, has a healthcare provider told you that the child had wheezing or asthma in the past 12 months? [(AN)]

iven the live attenuated influenza vaccine. Instead, these children should be given the nactivated influenza vaccine.

If your child is a baby, have you ever been told that he or she has had intussusception? [houses] Intuitive the large of the support of the believe on a control of the Intuitive the large of the support of the believe on a control of the Intuitive the large of the support of the believe on a control of the Intuitive the large of the support of the believe on the believe on the believe of the control of the believe of the support of the believe of the believe

Infants who have a history of intususception (i.e., the telescoping of one portion of t intestine into another) should not be given rotaving vaccine.

7. Has the child, a sibling, or a parent had a seizure; has the child had brain or other nervous system problem? [01a²/₂ it, as the NLM, NLM, NLM, DEP [13a²] of the age contraindent in didien who have a better enghalopathy within 7 days following DTP/DTP/ An unable progressive means.

is family Visitory of reforms, socioted as sucial forestation children with a personal or family [i.e., point or olding] intolarly of sectors generally should not be secontated with 1999's; they should recover separate 1999 and 1999, sectoring (A history of Callian Bent syndrome (GSR) is a consoleration with the following. [i] Tollings: [i] GSR has counted within in extend of status, orbating squares and decision is made-to centrum vaccination, pare speciatory for the product of Tollings or of point 7 days, to represe personant protection. [i] Informative society (III - Vest) Y (GSR) has the protection of the protection of the product of the protection of the protection

occurred within 6 weeks of a prior influenza vaccination, vaccinate with TIV if at high risk for severe influenza complications.

where writtening by prime projections (all, these whole is the prolemant of inflatent scarce (pAVI)) are usually constanted in internacionary concluding the projection of the prime properties of the projection of the prime properties of the prime properties of the prime properties of the prime properties of the prime projection of the prime projection of the prime projection of the prime projection of the prime p

In the past 3 months, has the child taken medications that weaken their immune system, such as cortisone, prednisone other steroids, or anticancer drugs, or had radiation treatments?

virus vaccines (e.g., 1949), MPRV, varicela. LMV) should be prospored until after obserage or long-term high-dose resort of therapy has proded. For details and length or to postpone, consult the ACP statement (1). To find specific vaccination schedules are not finansplant (bone marrow transplant) patients, see reference 7. LMV can be only to healthy non-pregnant indicadas age 2-49 year.

10. In the past year, has the child received a transfusion of blood or blood products, or been given immune (gamma) globulin or an antiviral drug? (a.m. now, now), vor Certain lew via vazone (eg. LAW, PMP, MPMS, viantally may need to be deferred

Certain live virus vaccines (e.g., LAV, MPR, MMRV, variotis) may need to be deferred, depending on several variables. Corruit the most current ACIP recommendations or the curnent Red Book for the not current information on intervals between articleal drugs, immune globulin or blood product administration and live virus vaccines (1, 2).

11. Is the child/teen pregnant or is there a chance she could

Use van screen (e.g., 1949, 1949, 1940, unreal), LNV) are contained and one most helper and during program because of the heroscial and of van transmission to the facts (e.g., 5 socially solve young rooms who recoves a leve van souther should be manufaced by practice and contraspects for one morth following releging of the vaccies (h.g., 50 or the central grounds, invalvated policisms accords should not be given and pregramps), because, many large part of old classics a trainment (e.g., thant to reduced in programs). Each of the product of the programs of the reduced in programs, after the product of social contrasting and an advantage of the reduced in programs. Aft the production delivers accident may be administered dangle to 200 or 16 for through (f).

12. Has the child received vaccinations in the past 4 weeks

If the one was given either live, laterusized insuesta vaccine (Livry) or an injectable live virus vaccine (e.g., MPM, PMMS, varicals, ps/love (livry) in the past 4 weeks, the should wait 28 days before receiving another vaccination of this type. Inactivated vaccines may be given at the same time or at any spacing interval.

CDC. General recommendations on immunitations at www.cdc.gov/vacones/pubs/scip-list.html AAP. Red Soak. Report of the Committee on Inflictious Diseases at www.sapredbook.org.

- AV Not could regard gifter commission in epicocculosport z www.aprespool.org
 Table of Viscores Components: www.rds.gov/vacones/pubs/pinishool/bisenisab/uppendiosul excipers cable-2.pdf
 CDC Massios, mumps, and rabella vacone use and strategies for elemention of measies, rubel
- COC. Prevention of samuels. Recommendations of the Advisory Committee on Immunication Practices. MMMR 2007, 54 (ARI-II).
- isonableconstion).

 7. CDC Except from Guidelines for preventing opportunistic infections among henulopoietic stem or
- transplant respirem, WWW 2000, 44 (RR-ID), www.siti.gov/sustrees/publisher-hashift fest exci.

 8. CDC Nation to readers flavored ACP recommendation for acciding programsy after recoving a sub-five combined access MIMSES 2001–25 (MI).
- Abolic containing excise. MWAR 2001: 55 (47).

 CDC: Prevention of perbasis, status, and dytheria among pregnent and postpartum women a their intains. Recommendations of the ACP. MMAR 2008: 57 (89-4).

Immunization Action Coalition • Item #P4060 • p.

www.immunize.org/catg.d/p4060.pdf



Screen for contraindications using a standardized screening tool every time you plan to administer vaccines.

• Evaluate combination vaccines based on components and product indications

ACIP Abbrv.	Age Indications	Includes	Can Be Used For:
DTaP-IPV-HepB Pediarix	6 weeks through	DTaP	Doses 1 through 3 in the DTaP series
	6 years of age	IPV	Doses 1 through 3 in the IPV series
		Нер В	Any dose in the HepB series except the birth dose
DTaP-IPV Kinrix	4 through 6 years of age	DTaP	Dose 5 in the DTaP series
		IPV	Dose 4 in the IPV series

Use of Combination Vaccines and Extra Doses of Vaccine Antigens

- Using combination vaccines containing certain antigens not indicated at the time of administration to a patient might be justified when:
 - The extra antigen is not contraindicated
 - Products that contain only the needed antigens are not readily available
 - Potential benefits to the patient outweigh the potential risk for adverse events associated with the extra antigens

What Do You Think?



Q: We have a question about hepatitis A and Twinrix. Can we can use Twinrix for dose #1, hepatitis B vaccinen alone for dose #2 and Twinrix again for dose #3?

- Yes
- No

Twinrix (HepA-HepB)

- Combination hepatitis A and hepatitis B vaccines
 - Standard adult dose of hepatitis B vaccine
 - Pediatric dose of hepatitis A vaccine
- Approved for persons 18 years of age and older
- Schedule: 0, 1, 6 months
 - Alternate schedule 4 doses
 - 0, 7, 21 through 30 days and a booster dose 12 months
- IM injection

Mixed Product Schedules

Any combination of 3 doses of adult HepB or 3 doses of Twinrix



Complete series of hepatitis B vaccine

1 dose of Twinrix +2 doses of adult hepA



Complete series of hepatitis A vaccine

2 doses of Twinrix +1 dose of adult hepA



Complete series of hepatitis A vaccine

Maintain spacing intervals that are recommended for Twinrix.

What Do You Think?

- We misplaced some Acthib diluent. But we have lots of MMR diluent. Can we use MMR diluent to reconstitute Acthib vaccine?
 - Yes
 - No

Diluents and Vaccines

- Only use the diluent supplied by the vaccine manufacturer to reconstitute the vaccine
- All diluents are NOT the same

Product Name	Lyophilized vaccine	Liquid diluent
Acthib	Hib	0.4% sodium chloride
MMR	M-M-R II (MMR)	Sterile water

Vaccines with Diluents: How to Use Them

Be sure to reconstitute the following vaccines correctly before administering them! Reconstitution means that the lyophilized (freezedried) vaccine powder or wafer in one vial must be reconstituted (mixed) with the diluent (liquid) in another.

- · Only use the diluent provided by the manufacturer for that vaccine as indicated on the chart.
- ALWAYS check the expiration date on the diluent and vaccine. NEVER use expired diluent or vaccine.

Vaccine product name	Manufacturer	Lyophilized vaccine (powder)	Liquid diluent (may contain vaccine)	Time allowed between reconstitution and use	Diluent storage environment
ActHIB (Hib)	sanofi pasteur	Hib	0.4% sodium chloride	24 hrs	Refrigerator
Hiberix (Hib)	GlaxoSmithKline	Hib	0.9% sodium chloride	24 hrs	Refrigerator or room temp
Imovax (RAB _{HDCV})	sanofi pasteur	Rabies virus	Sterile water	Immediately†	Refrigerator
M-M-R II (MMR)	Merck	MMR	Sterile water	8 hrs	Refrigerator or room temp
MenHibrix (Hib-MenCY)	GlaxoSmithKline	Hib-MenCY	0.9% sodium chloride	Immediately†	Refrigerator or room temp
Menomune (MPSV4)	sanofi pasteur	MPSV4	Distilled water	30 min (single-dose vial) 35 days (multidose vial)	Refrigerator
Menveo (MCV4)	Novartis	MenA	MenCWY	8 hrs	Refrigerator
Pentacel (DTaP-IPV/Hib)	sanofi pasteur	Hib	DTaP-IPV	Immediately†	Refrigerator
ProQuad (MMRV)	Merck	MMRV	Sterile water	30 min	Refrigerator or room temp
RabAvert (RAB _{PCECV})	Novartis	Rabies virus	Sterile water	Immediately†	Refrigerator
Rotarix (RV1) [‡]	GlaxoSmithKline	RV1	Sterile water, calcium carbonate, and xanthan	24 hrs	Room temp
Varivax (VAR)	Merck	VAR	Sterile water	30 min	Refrigerator or room temp
YF-VAX (YF)	sanofi pasteur	YF	0.9% sodium chloride	60 min	Refrigerator or room temp
Zostavax (HZV)	Merck	HZV	Sterile water	30 min	Refrigerator or room temp

Always refer to package inserts for detailed instructions on reconstituting specific vaccines. In general, follow the steps below

- 1. For single-dose vaccine products (exceptions are Menomune in the multi-dose vial and Rotarix¹), select a syringe and a needle of proper length to be used for both reconstitution and administration of the vaccine. Following reconstitution, Menomune in a multidose vial will require a new needle and syringe for each dose of vaccine to be administered. For Rotarix, see the package insert.
- Before reconstituting, check labels on both the lyophilized vaccine vial and the diluent to verify that
- . they are the correct two products to mix together,
- . the diluent is the correct volume (especially for Menomune in the multidose
- · neither the vaccine nor the diluent has expired
- 3. Reconstitute (i.e., mix) vaccine just prior to use by
- removing the protective caps and wiping each stopper with an alcohol swab, . inserting needle of syringe into diluent vial and withdrawing entire contents, and
- · injecting diluent into lyophilized vaccine vial and rotating or agitating to thoroughly dissolve the lyophilized powder.
- If the reconstituted vaccine is not used within this time period, it must be discarded. For purposes of this guidance, "immediately" is defined as within 30 minutes or less
- Rotarix vaccine is administered by mouth using the applicator that contains the diluent. It is not administered as an injection

- 4. Check the appearance of the reconstituted vaccine
- Reconstituted vaccine may be used if the color and appearance match the
- description on the package insert.
- . If there is discoloration, extraneous particulate matter, obvious lack of resuspension, or the vaccine cannot be thoroughly mixed, mark the vial as "DO NOT USE," return it to proper storage conditions, and contact your state or local health department immunization program or the vaccine
- 5. If reconstituted vaccine is not used immediately or comes in a multidose vial (i.e., multi-dose Menomune), be sure to
- clearly mark the vial with the date and time the vaccine was reconstituted.
- maintain the product at 35°-46°F (2°-8°C); do not freeze, and
- · use only within the time indicated on chart above.

IMMUNIZATION ACTION COALITION St. Paul, Minnesota • 651-647-9009 • www.vaccineinformation.org • www.immunize.org

www.immunize.org/catg.d/p3040.pdf • Item #P3040 (1/14)

http://www.immunize.org/catg.d/p3040.pdf

Posted job aids help staff - Make the right thing to do, the easy thing to do!



What Do You Think?



Q: We have a 65 year old patient who needs zoster vaccine. She received a blood transfusion 2 weeks ago. Can we administer zoster vaccine today?

- 1. Yes
- 2. No

Antibody Containing Products and Live Vaccines

General Rule

- Inactivated vaccines are generally not affected by circulating antibody to the antigen
- Live attenuated vaccines may be affected by circulating antibody

Exceptions to the General Rule

- Antibody/vaccine spacing recommendations apply specifically to MMR and varicellacontaining vaccines
- Does NOT apply to
 - zoster vaccine (large amount of virus in the vaccine)
 - yellow fever, oral typhoid (negligible antibody in the U.S. blood supply)
 - LAIV (viruses change annually)
 - rotavirus (replication in GI tract)

Table 5: Interval between antibodycontaining products and measles- and varicella-containing vaccines

TABLE 5. Recommended intervals between administration of antibody-containing products and measles- or varicella-containing vaccine, by product and indication for vaccination

Product/Indication	Dose (mg lgG/kg) and route*	Recommended interval before measles- or varicella-containing vaccine [†] administration (months)
Tetanus IG	250 units (10 mg lgG/kg) IM	3
Hepatitis A IG		
Contact prophylaxis	0.02 mL/kg (3.3 mg lgG/kg) IM	3
International travel	0.06 mL/kg (10 mg lgG/kg) IM	3
Hepatitis B IG	0.06 mL/kg (10 mg lgG/kg) IM	3
Rables IG	20 IU/kg (22 mg lgG/kg) IM	4
Varicella IG	125 units/10 kg (60-200 mg lgG/kg) IM, maximum 625 units	5
Measles prophylaxis IG		
Standard (i.e., nonimmunocompromised) contact	0.25 mL/kg (40 mg lgG/kg) IM	5
Immunocompromised contact	0.50 mL/kg (80 mg lgG/kg) IM	6
Blood transfusion		
RBCs, washed	10 mL/kg, negligible lgG/kg IV	None
RBCs, adenine-saline added	10 mL/kg (10 mg lgG/kg) IV	3
Packed RBCs (hematocrit 65%) [§]	10 mL/kg (60 mg lgG/kg) IV	6
Whole blood (hematocrit 35%–50%)§	10 mL/kg (80–100 mg lgG/kg) IV	6
Plasma/platelet products	10 mL/kg (160 mg lgG/kg) IV	7
Cytomegalovirus IGIV	150 mg/kg maximum	6
IGIV		
Replacement therapy for immune deficiencies	300–400 mg/kg IV [¶]	8
Immune thrombocytopenic purpura treatment	400 mg/kg IV	8
Postexposure varicella prophylaxis**	400 mg/kg IV	8
Immune thrombocytopenic purpura treatment	1000 mg/kg IV	10
Kawasaki disease	2 g/kg IV	11
Monoclonal antibody to respiratory syncytial virus F protein (Synagis [Medimmune]) ^{††}	15 mg/kg IM	None

What Do You Think?

We have 7 year old who was recently adopted from Bosnia. Her immunization record is:

- Detepe
- Žutica

- Dječja paralyze
- Gripia
- First I have no idea what they are and if I could figure it out would they count?

Foreign Immunization History

- Adopted children's birth countries often have vaccination schedules that differ from the U.S. immunization schedule
- Differences include the vaccines administered, the recommended ages, number and timing of the doses
 - Detepe = DPT
 - Gripa = Influenza
 - Dječja paraliza = Polio
 - Žutica = HepA

Appendix B in the Pink Book includes resources for determining vaccines administered in foreign countries

Binational Immunization Schedule: Mexico and U.S.

							Brid	ad hrony 20	
2013 Bir	ational Imn	nunization Res	ource Tool for Ch	ildren from	Birth T	roua	h 18 Y	ears	
2013 Binational Immunization Resource Tool for Children from Birth Through 18 Years Vaccine doses administered in Mexico may be counted as valid in the United States (Induding vaccines not licensed for use in the U.S.) if the dose or doses are documented in writing (Induding the date of administration) and comply with the minimum intervals and minimum ages as recommended by the Advisory Committee on Immunization Practices. See http://www.cdc.gov/vaccines/schedules/owlloads/child/mmwr-child-schedule.pdf.									
MEXICO Vaccines for Infants and Adolescents USA									
	DOSES RECOMMEND	DED BY AGE	DISEASES	DO:	ES RECOMME	NDED BY A	GE		
		Antihepatitis B at birth, 2,6 months ¹	Hepatitis B	HepB birth, 2,6 through 18 months	Comvex	Pediarix 2, 4, 6 months			
		Pentavalente Acelulari 2, 4,6, 18 mentrs	H. influenzae type b	Hib 2, 4,6 ¹ , 12 through 15 months	2, 4, 12 through 15 months	through onths HibMenCY 2 through 15		Pentacel 2, 4, 6, 15 through 18 months	
			Meningococcal (Not offered in Mexico)	MCV4 9 months through 10 years (high-risk) 11 through 12 years, 16 years		months (high-risk)		•	
			Tos Ferina / Pertussis	DTaP	Tdap 11 through 12 years				
Td	DPT 4through 6 years		Difteria / Diphtheria	2, 4, 6, 12 through 18 months, 4 through 6 years	(required in many states for			Kinrix 4through	
12 years	- '	Pentavalente Acekulari	Tétanos / Tetanus	+1100910 1425	7th grade entryt**	Pediarix	Pentacel 2,4,6,		
	Sabin (CPV) 2 doses per yeat, from 5 to 50 months of age [In addition to prior 2 doses of IPV]		Poliomielitis / Polio	IPV 2,4,6 through 18 months, 4 through 6 years		2, 4, 6 months	15 through 18 months	6 years	
Vaccination Commissions Neumocologic TipleVini 1509 - MM9		Rotateq 2, 4, 6 months	Rotavirus	RotaTeq 2,4,6 months or Rotarix 2,4 months		Vaccination Combinations Padarts - OTaP-Hap8-IPV Mostlfshore His-MemCY Commax - His-Hap8 ProCaud - MMR7 Pertacel - OTaP-PVHb Narts - OTaP-PV		ations	
		Neumoo öocioa Conjugada (PCV13) 2, 4 months 12 through 15 months	Neumococo / Pneumococcal	PCV13 2, 4, 6, 12 through 15 months	PPSV23 2through 18 years (high risk)				
		Influenza (yearly) 6 through 99 months, 60 months through 9 years (high risk only)	Influenza	Influenza* (yearly) 6 months or older					
	SR		Sarampión / Measles	1840		FOOTNOTES		_	
	12 years	Triple Viral SRP 12 months, 6 years	Rubéola / Rubella	MMR 12 through 15 months,	MMRV	* Two doses given at least four weeks apart are recommended for children			
FOOTNO	TES		Parotiditis / Mumps	4 through 6 years	12 through 15 months,	aged 6 months through 6 years of age who are getting a fluvacoine fo		vaccine for	
Forthose who have real had die full service by service by sep 2 rounds in 1 month queries 13 years 1 month queries 13 years 2 Officeed to high-risk groups only MPV 11 years (3 desect (gifts only) (gifts only) B desect (gifts			Varicela / Varicella	Varioella 12 through 15 months, 4 through 6 years	4 through 6 years			H1) strain.	
		Antihepatitis A 12, 18months	Hepatitis A	HepA 12, 18 months				wite were	
			Virus del Papiloma Humano / Human Papillomavirus	HPV 11 through 18 years (3 doses)				O years. vaccine is	
		Tuberculosis			at 6 mon		m 2016		

www.cdc.gov/vaccines/schedules/downloads/child/binational-schedule-pr.pdf

Bookmark on your web browser immunization resources consistently by you and other staff

Determining What to Do Next

- Healthcare providers may
 - Repeat the vaccinations- safe and prevents the need for serologic testing
 - Judicious use of serologic testing may avoid unnecessary injections
 - But for most vaccines, the many serologic tests cannot document protection against infection
 - Cost can be a factor, too

General Recommendations Table 14

TABLE 14. Approaches to evaluation and vaccination of persons vaccinated outside the United States who have no (or questionable) vaccination records

Vaccine	Recommended approach	Alternative approach*	
MMR	Revaccination with MMR	Serologic testing for IgG antibodies to measles, mumps, and rubella	
Hib	Age-appropriate revaccination	_	
Hepatitis A	Age-appropriate revaccination	Serologic testing for IgG antibodies to hepatitis A	
Hepatitis B	Age-appropriate revaccination and serologic testing for HBsAg †	_	
Poliovirus	Revaccination with inactivated poliovirus vaccine	Serologic testing for neutralizing antibody to poliovirus types 1, 2, and 3 (limited availability)	
DTaP	Revaccination with DTaP, with serologic testing for specific IgG antibody to tetanus and diphtheria toxins in the event of a severe local reaction	Persons whose records indicate receipt of ≥3 doses: serologic testing for specific IgG antibody to diphtheria and tetanus toxins before administering additional doses (see text), or administer a single booster dose of DTaP, followed by serolog cal testing after 1 month for specific IgG antibody to diphthe and tetanus toxins with revaccination as appropriate (see tex	
Tdap	Age-appropriate vaccination of persons who are candidates for Tdap vaccine on the basis of time since last diphtheria and tetanus-toxoid–containing vaccines.	_	
Varicella	Age-appropriate vaccination of persons who lack evidence of varicella immunity	_	
Pneumococcal conjugate	Age-appropriate vaccination	_	
Rotavirus	Age-appropriate vaccination	_	
HPV	Age-appropriate vaccination	_	
Zoster	Age-appropriate vaccination	_	

Abbreviations: DTaP = diphtheria and tetanus toxoids and acellular pertussis; HBsAg = hepatitis B surface antigen; Hib = Haemophilus influenzae type b; HPV = human papillomavirus; IgG = immune globulin G; MMR = measles, mumps, and rubella; Tdap = tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis.

*There is a recommended approach for all vaccines and an alternative approach for some vaccines.

[†]In rare instances, hepatitis B vaccine can give a false-positive HBsAg result up to 18 days after vaccination; therefore, blood should be drawn to test for HBsAg before vaccinating (Source: CDC. A comprehensive immunization strategy to eliminate transmission of hepatitis B virus infection in the United States: recommendations of the Advisory Committee on Immunization Practices [ACIP]; Part I: Immunization in Infants, Children, and Adolescents. MMWR 2005;54(No. RR-16.])

What Do You Think?

- How do can I answer questions from parents about vaccines and safety? We don't have a lot of time for discussion during a clinical visit.
 - Give the parent the phone number to the director of CDC to discuss their concerns
 - Go home for headache medication
 - Listen to the parent, answer their questions and recommend vaccination for those without contraindications or precautions

Communication Challenges

- Provider
 - Has little time for discussion
 - Suffers a sense of rejection as wise advisor
- Parent/guardian
 - Wants to be heard
 - Looking for reliable information
 - Wants control; wants to make decision

Each Encounter Takes its Own Shape Provider **Parent Parent** Vaccination Provider **Vaccination** Adolescent Sometimes it can feel like going around in circles!

Making a C.A.S.E. for Vaccines

- A model for talking to parents
 - Created by Alison Singer, MD
 - President; Autism Science Foundation
- A mnemonic to organize a rapid, useful response
- Lacks published studies of its efficacy
- Nonetheless draws on communication strategies and principles

Robert M Jacobson, MD. Professor of Pediatrics, Mayo Clinic

Framework for Communicating: C-A-S-E

- Corroborate: Acknowledge the parents concern;
 Find some point on which you can agree;
 Validate the emotion.
- About Me: Describe what you have done to build your knowledge base and expertise
- Science: Describe what the science says; Provide accurate, truthful and documented information
- Explain/Advise: Give advise to parent/patient based on the science
- An easy and memorable format for responses helps staff communicate consistent messages about vaccines.

C.A.S.E. Example

Corroborate:

"I understand why you are concerned about safety. We all want medications and vaccines that we give children to be safe."

<u>About Me:</u>

Because I have heard this from other people, I have done some research on this subject. I always want to provide the safest care based on the most up-to-date information."

C.A.S.E. Example

Science:

"Vaccines have been carefully studied by both medical and scientific experts. They are held to very high standard and safety monitoring is done- before and after vaccines are approved and recommended for use. Most side effects are mild- mainly pain and redness at the injection site and this should go away quickly. These diseases can be serious and have severe complications.

<u>Explain/Advise:</u>

"I strongly believe in the importance of vaccination. I have vaccinated my children. Other experts like the American Academy of Pediatrics, infectious disease doctors, and the CDC also agree that vaccination is very important to help keep your child healthy and safe from serious diseases and their complications."

Provide a clear, strong recommendation for vaccination.

Tips and Time-savers for Talking with Parents about HPV Vaccine

Recommend the HPV vaccine series the same way you recommend the other adolescent vaccines. For example, you can say "Your child needs these shots today," and name all of the vaccines recommended for the child's age.

Parents may be interested in vaccinating, yet still have questions. Taking the time to listen to parents' questions helps you save time and give an effective response. CDC research shows these straightforward messages work with parents when discussing HPV vaccine—and are easy for you or your staff to deliver.



<	CDC RESEARCH SHOWS:	The "HPV vaccine is cancer prevention" message resonates strongly with parents. In addition, studies show that a strong recommendation from you is the single best predictor of vaccination.
	TRY SAYING:	HPV vaccine is very important because it prevents cancer. I want your child to be protected from cancer. That's why I'm recommending that your daughter/son receive the first dose of HPV vaccine today.
{	CDC RESEARCH SHOWS:	Disease prevalence is not understood, and parents are unclear about what the vaccine actually protects against.
	TRY SAYING:	HPV can cause cancers of the cervix, vagina, and vulva in women, cancer of the penis in men, and cancers of the anus and the mouth or throat in both women and men. There are about 26,000 of these cancers each year—and most could be prevented with HPV vaccine. There are also many more precancerous conditions requiring treatment that can have lasting effects.
{	CDC RESEARCH SHOWS:	Parents want a concrete reason to understand the recommendation that 11–12 year olds receive HPV vaccine.
	TRY SAYING:	We're vaccinating today so your child will have the best protection possible long before the start of any kind of sexual activity. We vaccinate people well before they are exposed to an infection, as is the case with measles and the other recommended childhood vaccines. Similarly, we want to vaccinate children well before they get exposed to HPV.
{	CDC RESEARCH SHOWS:	Parents may be concerned that vaccinating may be perceived by the child as permission to have sex.
	TRY SAYING:	Research has shown that getting the HPV vaccine does not make kids more likely to be sexually active or start having sex at a younger age.
1	CDC RESEARCH	Parents might believe their child won't be exposed to HPV because they aren't sexually active or may not be for a long time.
<	SHOWS:	HDV is so common that almost everyone will be infected at some point. It is estimated that 70 million Americans are currently infected with

www.cdc.gov/vaccines/who/teens/for-hcp-tipsheet-hpv.html

Share communication materials with staff. Keep everyone on the same page!

CDC Vaccines and Immunization Resources

- Questions? E-mail CDC:
 - Providers
 - Parents and patients
- Website
- Influenza
- Vaccine Safety

nipinfo@cdc.gov

www.cdc.gov/cdcinfo

ww.cdc.gov/vaccines

www.cdc.gov/flu

w.cdc.gov/vaccinesafety

Additional Resources

- Arizona Department of Health Services www.azdhs.gov/phs/immunization/
- Local Health Departments
- Immunization Action Coalition
 - tion Center www.chop.edu
- Vaccine Education Center
- American Academy of Pediatrics (AAP)
- National Foundation for Infectious Diseases (NFID)

www.aap.org/immunize

www.immunize.org

www.nfid.org

Best Practice Summary

- Immunizing patients is a team effort
 - Ensure EVERYONE is on the same page
- Knowledgeable staff are your best asset
 - Educate new staff and any temporary staff
 - Annually and update as needed for all staff
- Create an environment where staff feel free to ask questions and admit errors

Questions?



JoEllen Wolicki BSN, RN jwolicki@cdc.gov

EXTRA SLIDES